

FIG. 3

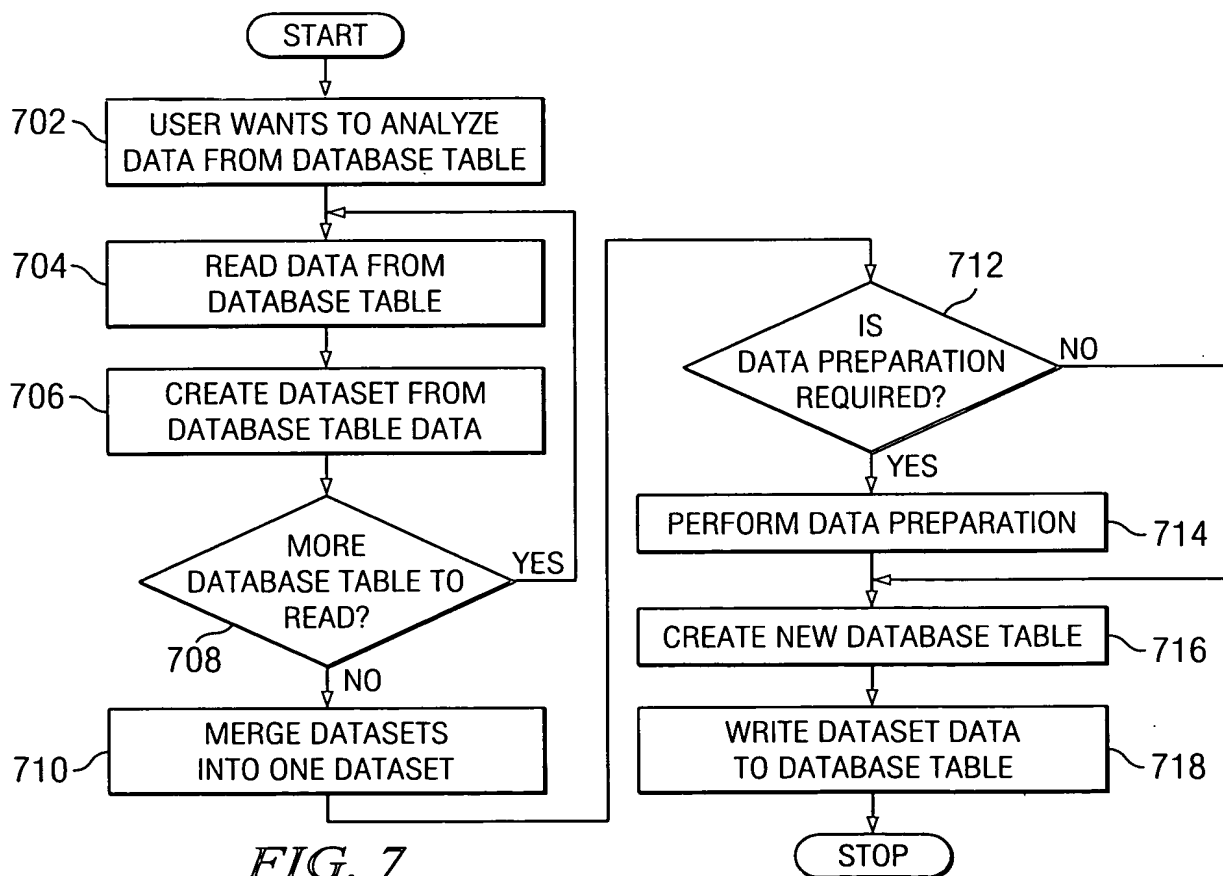


FIG. 7

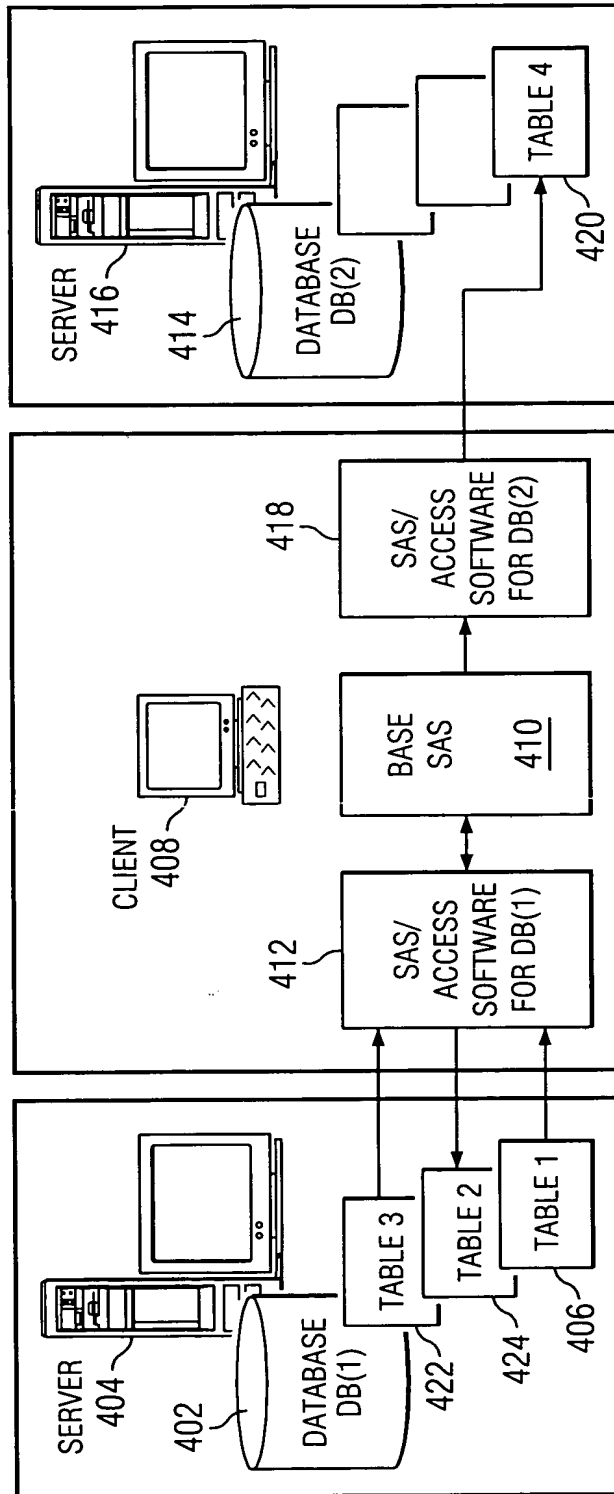


FIG. 4

CUSTOMER TABLE

NAME	AMOUNT	UNIT	STATE
TOM SMITH	13.00	1	CA
TONI RICE	51.00	2	CA
JANE DOE	17.50	3	TX
THOMAS LEE	90.10	5	FL
FRANK STANLEY	20.50	7	MA
CARLOS LOPEZ	43.50	9	FL
APRIL HOLMES	58.00	10	CA

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OUTPUT FLAT FILE 1

TOM SMITH	13.00	1	CA
TONI RICE	51.00	2	CA
JANE DOE	17.50	3	TX
THOMAS LEE	90.10	5	FL
FRANK STANLEY	20.50	7	MA
CARLOS LOPEZ	43.50	9	FL
APRIL HOLMES	58.00	10	CA

#	VARIABLE	TYPE	LEN	POS
1	CUSTOMER	NUM	5	0
2	NAME	CHAR	7	5
3	AMOUNT	NUM	8	12
4	UNIT	NUM	8	28
5	STATE	CHAR	7	38
CUSTOMER	NAME	AMOUNT	UNIT	STATE
1	TOM SMITH	13.00	1	CA
2	TONI RICE	51.00	2	CA
3	JANE DOE	17.50	3	TX
4	THOMAS LEE	90.10	5	FL
5	FRANK STANLEY	20.50	7	MA
6	CARLOS LOPEZ	43.50	9	FL
7	APRIL HOLMES	58.00	10	CA

STATE	SHIP COST
CA	5.00
TX	10.00
MA	15.00
FL	20.00

CA	5.00
TX	10.00
MA	15.00
FL	20.00

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MERGED DATASET: FINAL					
#	VARIABLE	TYPE	LEN	POS	
1	CUSTOMER	NUM	5	0	
2	NAME	CHAR	7	5	
3	AMOUNT	NUM	8	12	
4	UNIT	NUM	8	28	
5	STATE	CHAR	7	30	
6	SHIP COST	NUM	8	38	
OBS	NAME	AMOUNT	UNIT	STATE	SHIP COST
1	TOM SMITH	13.00	1	CA	5.00
2	TONI RICE	51.00	2	CA	5.00
3	JANE DOE	17.50	3	TX	10.00
4	THOMAS LEE	90.10	5	FL	20.00
5	FRANK STANLEY	20.50	7	MA	15.00
6	CARLOS LOPEZ	43.50	9	FL	20.00
7	APRIL HOLMES	58.00	10	CA	5.00

SAS DATASET:
CUSTOMER

SAS PROCEDURE

```
data Final;
set Total;
if unit > '0' then total = unit*
amount + Ship Cost;
else total = '0';
```

SAS DATASET: SHIPPING

#	VARIABLE	TYPE	LEN	POS
1	STATE	CHAR	7	20
2	SHIP COST	NUM	8	28
STATE	SHIP COST			
CA	5.00			
TX	10.00			
MA	15.00			
FL	20.00			

FIG. 5

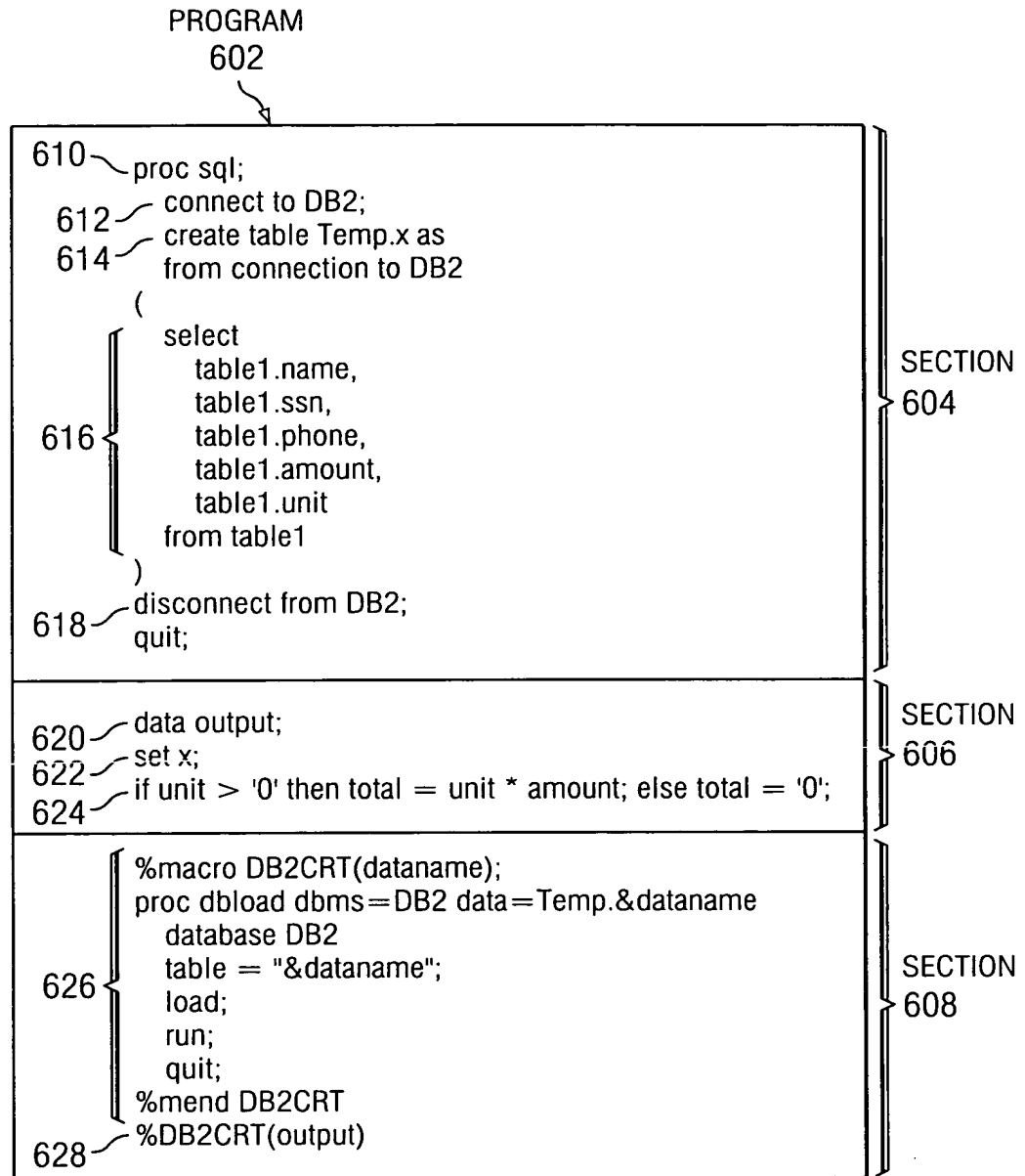


FIG. 6